

LEAN 101

SIPOC

Lean 101 - SIPOC

SIPOC = Supplier, Inputs, Process, Outputs, Customers

A SIPOC diagram* is used to identify all the essential elements of a process before work begins to improve it. It can help you and your team members to define a complex project that might otherwise be intractable or difficult to scope out.

Definitions of Term	Definitions of Terms						
Supplier	The internal/external Suppliers of the Inputs required for the						
	Process.						
Inputs/Specifications	The Inputs such as materials, forms, information, etc required						
	for the Process to work properly, including any specifications for the						
	Inputs.						
Process	The activities, procedures, steps required to produce the Output.						
Outputs/Requirements	What the Customer/Client wants/needs/has requested, including the						
-	specific requirements for each Output. It is what the process/unit						
	produces. Requirements could include timing and frequency.						
Customers	The internal/external Customers/Clients that will receive the Outputs						
	of this Process.						

^{*} based on the work of Edward Deming & Six Sigma

Applying a Process Mindset

SIPOC Worksheet (Suppliers, Inputs, Process, Outputs, Customers)

Purpose: The purpose of this task is to identify and define the essential aspects of key

primary and secondary processes in your worksite for use in your improvement

activities.

<u>Task 1</u>: Name the primary and secondary processes in your work area that you're selecting for this Worksheet.

Primary Process -

Secondary Processes -

<u>Task 2</u>: Outline the steps in your selected primary and secondary process(es).

Do this at a fairly broad or high level (or go down to smaller discrete processes) so that you generally have 4 or 5 steps – but try to have no more than six.

Task 3: Complete the table below for your selected process(es).

This SIPOC table can be used to identify and diagram all the relevant elements of a process. This can be especially useful before work begins and can help you and your team members to define a complex project that may otherwise be difficult to scope out.

After you've first identified the broad steps in the process, it might be helpful to work backwards -- that is, start at the end by identifying who your customers are and the outputs they require, then the inputs needed to produce those, and finally who would supply those needed inputs.

Example of SIPOC Diagram

Process Name: Re	Process Name: Repairing car hit in parking lot											
Car arrives at repair shop	Car inspected & insurer contacted	Parts ordered	Car repaired	Car inspected & test driven	Car turned over to owner							

Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
Suppliers Car Owner Car Parts Company	Inputs/Specifications Damaged Car Approval/Agreement from Insurer Agreement from Car Owner for repairs Car parts: • Must be brand-specific	See Steps Above	Estimate of Work to be performed/ Paperwork to Insurer Invoice to Insurer Repaired Car: • All repairs completed as agreed. • Car to be repaired within a week. Car Owner sign-off.	Car Owner Insurance Company



Process Name:										
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Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
		Process See Steps Above	•	

Process Name:		_	 		 _	
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Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
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Process Name:				. <u> </u>
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Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
	,	See Steps Above		

Process Name:					
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Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
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Process Name:			_		_	_	_	
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Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers
• •		See Steps Above		

Process Name:							
Suppliers	Inputs/Specifications	Process	Outputs/Requirements	Customers			
Suppliers	inputs/specifications	See Steps Above	Outputs/Requirements	Customers			
		See Steps Above					